

Patent Abstracts of Japan

PUBLICATION NUMBER : 59032971  
PUBLICATION DATE : 22-02-84

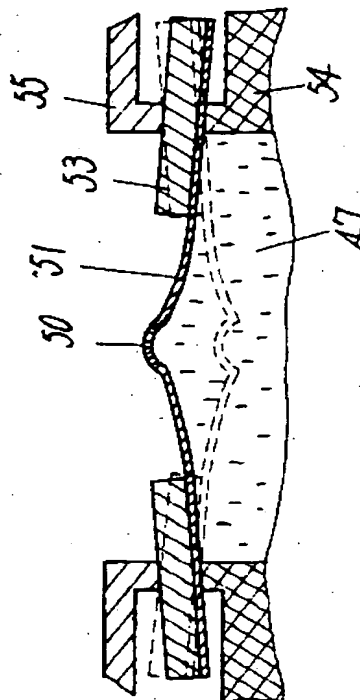
APPLICATION DATE : 19-08-82  
APPLICATION NUMBER : 57144507

APPLICANT : MATSUSHITA ELECTRIC IND CO LTD;

INVENTOR : YAMAMOTO KAZUSHI;

INT.CL. : B05B 17/06 // F23D 11/34

TITLE : ATOMIZER



ABSTRACT : PURPOSE: To contrive to improve the efficiency of atomization, while saving the amount of electric power to be consumed, by constituting a flexible vibrating body with a nozzle plate and an electric oscillator provided at the nozzle of the titled atomizer, and supporting said vibrating body at a nodal part.

CONSTITUTION: One surface of a pressurized chamber 47 fixed to the body of an atomizing chamber is covered with a nozzle plate 51 in which a plurality of nozzles 50 are provided, and the nozzles 50 are faced to the pressurized chamber 47. An electric oscillator 53, e.g. piezoelectric ceramics, having a central opening 52 is stuck to said nozzle plate 51 to form a flexible vibrating body. Said flexible vibrating body is supported with the first supporting body 54, e.g. electric conductive rubber, at the side of the nozzle plate 51 and with the second supporting body 55, e.g. electric unconducting rubber, at the side of the piezoelectric ceramics 53, respectively. By this mechanism, stable flexible vibration can be formed by exciting the flexible vibrating body. Hence, atomized particles can be sprayed under a favorable condition through the nozzles 50.

COPYRIGHT: (C)1984,JPO&Japio